

Oil Field Environmental Incident Summary

Incident: 20160223103952 **Date/Time of Notice:** 02/23/2016 10:39

Responsible Party: MARATHON OIL COMPANY

Well Operator: MARATHON OIL COMPANY

Well Name: RECKARD SWD #1

Field Name: BAILEY

Well File #: 90276

Date Incident: 2/22/2016

Time Incident: 10:00

Facility ID Number:

County: DUNN

Twp: 146

Rng: 94

Sec: 27

Qtr: SE NE

Location Description: Upon surface inspection the release appears to be is contained on the pipeline ROW except for a 3 ft wide x 150 ft long finger of sediment that extends from the ROW into the immediately adjacent pasture. (15-146-95)

Submitted By: Jacob Parker

Received By:

Contact Person: Zach Weis

3172 HWY 22 N

DICKINSON, ND 58601

General Land Use: Other - Described Above

Affected Medium: Topsoil

Distance Nearest Occupied Building:

Distance Nearest Water Well:

Type of Incident: Pipeline Leak

Release Contained in Dike: No

Reported to NRC: No

Spilled Units

Recovered Units

Followup Units

Oil

Brine

149

Barrels

Other

Description of Other Released Contaminant:

Inspected:

Written Report Received:

Clean Up Concluded:

Risk Evaluation:

No wetlands, drainages, surface water or identified environmentally sensitive areas are at immediate risk.

Areal Extent:

Potential Environmental Impacts:

Minimal potential environmental impacts exist due to release of produced water. The preliminary estimate of the potential released volume is approximately 149 barrels.

Action Taken or Planned:

Immediate actions taken the day of the pressure loss to minimize any potential environmental impacts [see above]. Response plan: Delineate the spill area, excavate to pipe and determine release point, repair pipe, excavate all contaminated soil using electrical conductivity probe, and properly dispose of the contaminated soil, and replace with clean soil. The area will then be seeded and monitored to ensure reclamation is successful. Before the pipeline segment is brought back online it will undergo pressure testing.

Wastes Disposal Location: R360 Chimney Butte Landfill

Agencies Involved:**Updates**

Date: 2/23/2016 **Status:** Inspection

Author: O'Gorman, Brian

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Arrived on location at 16:30. 41 degrees F, NW wind 15-20 mph, sunny. Met with the company representative and walked the area impacted by the pipeline release. The exact location of the leak had not yet been determined; however, the pipeline had been emptied and purged with air. The release location was estimated to be near the SW corner of the well pad. During the inspection, heavy equipment was on site and had begun to remove surface soils at the furthest area downgradient from the leak. The company was testing the soils with a portable electrical conductivity (EC) meter to delineate impacted areas while excavating. The area was in native pastureland that sloped toward the SE approximately 3 to 5 percent. It appeared that the release followed the concave draw area for approximately 1500 feet. Confirmation soil samples will be collected after excavation is completed and provided to the NDDoH. Photos were taken during the inspection. More follow-up needed.

Date: 2/23/2016 **Status:** Reviewed - Follow-up Required

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Talked to the contact. The spill occurred along pipeline, and there is one area that flowed onto the prairie. They are delineating the spill area. Follow-up is necessary.

Date: 3/3/2016 **Status:** Inspection

Author: Torgerson, Brad

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Viewed pasture area just south and SW of the Krebs 34-20TFH (NDIC File #: 28702, NW/NE 29-146-93) well sign in the late afternoon of March 3, 2016. Soils have been excavated just south and SW of the well pad. Pipes were exposed within the deeper (approximately 8 ft deep) excavation area (see pics). A shallower excavation area (approximately 2-3 ft deep and approximately 200 yards long) extended to the east and south along what appeared to be an ephemeral drainageway. Release assessment report should be submitted for review. Further site review appears to be necessary.

Date: 3/9/2016 **Status:** Inspection

Author: Cooper, Mike

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Arrived on site 3:19 p.m. 50 degrees F, wind 10-15 mph. Met with company contact on site, and he described the incident to me. Excavation has been completed. No backfill at this time, as analytical results are being completed by Energy Laboratories. Once analyticals come back, backfill will commence. Walked entire length of excavation and did not see any remaining surface contamination. Excavation varied in depth due to areas of high vs. low contamination. Some piles of contaminated material still remain on site, as well as clean backfill. Further follow-up is necessary to check for backfill and future vegetative growth.

Date: 3/18/2016 **Status:** Correspondence

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

The company contact indicated that the sample results have been returned, and he will send copies to the NDDoH. The hole area still had high chlorides, conductivity, and sodium adsorption ratios (SAR).

Date: 3/21/2016 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

I arrived at the site 1:31 p.m. The weather was clear, 48°F. Wind was from the southeast 15-25 mph. The pipeline break occurred on the southwest corner of pad in the pasture. The produced water followed a lower area in the pasture. The area was excavated, and impacted soil was removed. The impacted area went around the east side of hill for approximately 600 yards. Talked to the company contact about delineating the area still impacted and taking more soil samples. Indicated that the NDDoH could meet with him at the site. The contact called later in the day requesting to meet at the site. Bill Suess and I will meet with him Tuesday afternoon. More follow-up needed. 46.89864, -102.79034

Date: 3/23/2016 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Bill Suess and I arrived at the site at 4:30 p.m. and met with the company representative. The company has hired a company to do borings. Borings will be done in the hole area to determine the depth of the impact below current excavation. Soil samples will be taken along the side walls to verify cleanup. More samples will be taken in the north half of the lower area excavation; the last sample was a composite sample showing chlorides of 292 mg/L. More samples will be taken at the south end to verify cleanup. More follow-up needed.